Table 2.4 Manufacturing Inputs for Heat, Power, and Electricity Generation by End Use, 1998

End-Use Category	Net Electricity ¹	Residual Fuel Oil	Distillate Fuel Oil	Liquefied Petroleum Gases and Natural Gas Liquids	Natural Gas	Coal (Excluding Coal Coke and Breeze)	
	Million Kilowatthours	Million Barrels			Billion Cubic Feet	Million Short Tons	Total ²
direct End Use (Boiler Fuel)	. 5,568	39	6	7	2,471	35	
irect End Use							
All Process Uses	. 705,697	16	6	22	3,272	15	
Process Heating	. 103,299	15	3	19	3,104	15	
Process Cooling and Refrigeration		(s)	(s)	1	21	(s)	
Machine Drive		1	2	2	96	(s)	
Electrochemical Processes		<u>.</u>	_	_	_	(0)	
Other Process Uses		(s)	1	(s)	51	(s)	
All Non-Process Uses		(3)	9	8	656	1	
Facility Heating, Ventilation, and Air Conditioning 3		1	1	1	393	(s)	
Facility Lighting		'	'	'	393	(5)	
		(s)		(s)	39	(a)	
Other Facility Support		(5)	1	(8)	5 5	(s)	
Onsite Transportation		(-)	6	(-)	-		
Conventional Electricity Generation		(s)	1	(s)	204	1	
Other Non-Process Use	. 696	(s)	(s)	(s)	Q	0	
nd Use Not Reported	. R 20,473	(s)	1	1	70	(s)	
Total	. R 889,474	57	23	38	6,469	51	
	Trillion Btu						
direct End Use (Boiler Fuel)	. 19	246	38	24	2,538	770	3,635
rect End Use							
All Process Uses	. 2,408	103	37	78	3,361	338	6,325
Process Heating		97	20	68	3.187	331	4,055
Process Cooling and Refrigeration		(s)	(s)	2	22	(s)	210
Machine Drive		5	13	7	99	(9)	1.691
Electrochemical Processes		3	15	,	_	,	298
		_		 1	<u> </u>	(a)	69
Other Process Uses		8	-	·		(s) 30	
All Non-Process Uses		4	52 6	29 4	673 403	30 4	1,330
Facility Heating, Ventilation, and Air Conditioning ³		4	ō	4		4	692
Facility Lighting			<u> </u>	(a)		(a)	211
Other Facility Support		1		(s)	40	(s)	96
Onsite Transportation		_	35	24	5		69
Conventional Electricity Generation	. –	3	3	(s)	210	27	243
Other Non-Process Use	. 2	(s)	1	(s)	Q	0	3
nd Use Not Reported	. 70	1	7	4	72	3	157
		357	133				

¹ "Net Electricity" is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out.

Notes: • Totals may not equal sum of components due to independent rounding. • The estimates presented in this table are for the total consumption of energy for the production of heat, power, and

electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells. • Allocations to end uses are made on the basis of reasonable approximations by respondents.

Web Page: http://www.eia.doe.gov/emeu/mecs.

Source: Energy Information Administration, Form EIA-846, "1998 Manufacturing Energy Consumption Survey."

² Total of listed energy sources. Excludes inputs of unallocated energy sources (6,248 trillion Btu). The top half of the "Total" column is blank because different physical units cannot be added.

³ Excludes steam and hot water.

^{— =} Not applicable. (s)=Estimate less than 0.5. Q=Withheld because relative standard error is greater han 50 percent